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ficsult
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Maximum Match 100%
Listing first 45 s
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Maximum DB seq length: 2000000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Title:
Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Searched:
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                               Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A_Geneseq_032802:*
1: /SIDS1/gcgdata/i
2: /SIDS1/gcgdata/i
                                                                                                                                                                                                                                                                                                          Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1980.DAT:*
2. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1981.DAT:*
3. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1981.DAT:*
4. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1983.DAT:*
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7. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1985.DAT:*
8. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1986.DAT:*
9. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1989.DAT:*
10. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1989.DAT:*
11. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1999.DAT:*
12. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1999.DAT:*
13. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1993.DAT:*
14. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1993.DAT:*
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18. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1995.DAT:*
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26. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1990.DAT:*
27. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1990.DAT:*
28. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1990.DAT:*
29. \SIDSJ/gcgdata/hold-geneseq/geneseqp-embl/AA1990.DAT:*
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11:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BLOSUM62
Gapop 10.0 , Gapext
     747574 segs, 111073796 residues
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169
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KQRQNKPPSKPNNDFHFEVFNFVPCSICG
                                                                                                                                                                                                                                                                                                          Length
  DВ
                          AAW39244
AAW39244
AAW39248
AAW39250
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AAW39245
AAW39217
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Human RSV G protei
Human RSV A subtyp
Human RSV A subtyp
Human RSV G protei
Human RSV G protei
Human RSV G protei
Human RSV G protei
Sequence of human
HSRV glycoprotein
                                                                                                                                                                                                                                                                                                             Description
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Amino acid sequenc	AAB68016	22		94.7	160	45
acid	84	22	101	٠.	160	44
Amino acid sequenc	67	22	0	۸.	160	
a peptide	3	21	101	4.	160	42
e which ind	AAW97310	20	101	94.7	160	41
protein a		20	101	٠	160	40
piratory Syncy		17	0	4.	160	39
b-group	t A	17	0	4.	160	38
subgp. A pr		17	0		160	37
subgroup	38	16	0	٠	160	36
no acid sequ	84	22	61	4	160	35
G protei	4	20	61	4	160	34
piratory	97	17	61	4	160	ω ω
Amino acid sequenc	841	22	59	4.	160	32
ი T	41	20	59	٠.	160	31
Respiratory Syncyt	AAR97073	17	59		160	30
acid	41	22	57	94.7	160	29
G prot	AAY44101	20	57	٠	160	28
	70	17	57		160	27
Amino acid sequenc	4	22	55	94.7	160	26
Œ.	4410	20	55	4.	160	25
	AAR97075	17	55	94.7	160	24
acids	8414	22	53		160	23
prot	AAY44103	20.	53	94.7	160	22
tory	9707	17	53		160	21
acid se	8414	22	51	4	160	20
V G protei		20	51	4	160	19
iratory S	9707	17	51	94.7	160	18
Human RSV A subtyp	AAW39223	19	49	٠	160	17
n RSV A subty	3922	19	49	4	160	16
n RSV A subty	3922	19	49	٠	160	15
uman RSV A subty	3921	19	49	Δ,	160	14
meric human	044	10	681	96.4	163	13
HRSV glycoprotein	AAW47605	19		96.4	163	12

ALIGNMENTS

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RESULT
AAW39247
G protein; treatment; prevention; diagnosis; infection; immunity; antibody; Pneumovirus; identification; vaccine; cell receptor.
                                                                                                                                                                                            Human respiratory syncytial virus.
                                                                                                                                                                                                                                           Human RSV G protein fragment (aa. 149-157) derivative #4.
                                                                                                                                                                                                                                                              27-AUG-1998 (first entry)
                                                                                                                                                                                                                                                                                   AAW39247;
                                                                                                                                                                                                                                                                                                     AAW39247 standard; peptide; 29
                  Gorman JJ;
                                                                           04-JUN-1997;
                                                                                               11-DEC-1997.
                                                                                                                                                               Modified-site
                                    (BIOM-) BIOMOLECULAR RES INST LTD
                                                         05-JUN-1996;
                                                                                                                 WO9746581-A1
                                                                                                                                             Modified-site
                                                        96AU-0000265
                                                                           97WO-AU00351
                                                                                                                                             /note≖ "N-terminal acetylated"
29
                                                                                                                                   /note= "C-terminal amide"
                                                                                                                                                                          Location/Qualifiers
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WPI; 1998-042117/04

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RESULT
AAW392
ID AAW3
XX AAW392
XX AAW3
XX AAW3
XX BAW3
DT 27-A
DT 27-A
XX G pr
KW G pr
KW G pr
KW anti
XX Huma
XX Hum
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 28; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAW39244-W39252 are derivatives of the human respiratory syncytial virus (RSV) G protein corresponding to amino acids 149 to 197. These fragments can be used to treat, prevent or diagnose Pneumovirus, specifically RSV, infection and to immunise against such infections. Antibodies raised from these fragments may also be used diagnostically. The fragments may also be used to identify compounds able to inhibit binding of RSV to host cells and for characterisation of cell receptors for Pneumoviruses. When the fragments are used in combination with existing vaccines, they may allow a reduction in dose, and thus side effects, of the vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Peptide(s) derived from specific region of respiratory virus G protein - used to treat, prevent, diagnose and against Pneumovirus infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antibody; Pneumovirus; identification;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAW39245 standard; peptide; 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
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                                                                             Peptide(s) derived from specific region of respiratory syncytial virus G protein - used to treat, prevent, diagnose and immunise against Pneumovirus infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disulfide-bond
Disulfide-bond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human respiratory syncytial virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human RSV G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27 - AUG - 1998
                                                                                                                                                                                             WPI; 1998-042117/04
                                                                                                                                                                                                                                                                                                                                                        05-JUN-1996;
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                            Example 4;
                                                                                                                                                                                                                                                                                                    (BIOM-) BIOMOLECULAR RES INST LTD
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                         Fig
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28..34
42
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    96.4%;
100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              prevention; diagnosis; infection; immunity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "N-terminal acetylated"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "C-terminal amide"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 163;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vaccine; cell receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; DB 19;
. 7.8e-16;
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RESULT
AAW39217
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В
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAW39244-W39252 are derivatives of the human respiratory syncytial virus (RSV) G protein corresponding to amino acids 149 to 197. These fragments can be used to treat, prevent or diagnose Pneumovirus, specifically RSV, infection and to immunise against such infections. Antibodies raised from these fragments may also be used diagnostically. The fragments may also be used to identify compounds able to inhibit binding of RSV to host cells and for characterisation of cell receptors for Pneumoviruses. When the fragments are used in combination with existing vaccines, they may allow a reduction in dose, and thus side effects, of the vaccine.
                         AAW39217-W39234 are fragments of the human respiratory syncytial virus (RSV) G protein corresponding to amino acids 149 to 197. These fragments can be used to treat, prevent or diagnose Pneumovirus, specifically RSV, infection and to immunise against such infections. Antibodies raised from these fragments may also be used diagnostically. The fragments may also be used to identify compounds able to inhibit binding of RSV to host cells and for characterisation of cell receptors for Pneumoviruses. When the fragments are used in combination with existing vaccines, they may allow a reduction in dose, and thus side effects, of the vaccine.
                                                                                                                                                                                                               Peptide(s) derived from specific virus G protein - used to treat, against Pneumovirus infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disulfide-bond
Disulfide-bond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        G protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human respiratory syncytial virus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAW39217 standard; peptide; 49
                                                                                                                                                                                Claim 5; Fig 2; 75pp; English.
                                                                                                                                                                                                                                                                                                             Gorman
                                                                                                                                                                                                                                                                                                                                                                         05-JUN-1996;
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28; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             treatment; prevention; diagnosis; in Pneumovirus; identification; vaccine;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         subtype G protein fragment (aa. 149-157) strain A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                         96AII 0000265
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100.0%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                            OIL
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Best Local Similarity 100.
Matches 28; Conservative
                                                                                                                                                                                        AAW39217-W39234 are fragments of the human respiratory syncytial virus (RSV) G protein corresponding to amino acids 149 to 197. These fragments can be used to treat, prevent or diagnose Pneumovirus, specifically RSV, infection and to immunise against such infections. Antibodies raised from these fragments may also be used diagnostically. The fragments may also be used to identify compounds able to inhibit binding of RSV to host cells and for characterisation of cell receptors for Pneumoviruses. When the fragments are used in combination with existing vaccines, they may allow a reduction in dose, and thus side effects, of the vaccine.
                                                                                                                                                                                                                                                                                                                                                  Peptide(s) derived from specific region of respiratory syncytial virus G protein - used to treat, prevent, diagnose and immunise against Pneumovirus infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              G protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disulfide-bond
Disulfide-bond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human respiratory syncytial virus.
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                                                                                                                                                                   49 AA;
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100.0%; Pred. No. 1
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Best Local Similarity
Matches 28; Conserv
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Disulfide-bond
                               antibody; Pneumovirus;
                                               G protein;
                                                                                  Human RSV G protein fragment (aa. 149-157) derivative #1
                                                                                                                     27-AUG-1998
                                                                                                                                                                                          AAW39244 standard; peptide; 49 AA
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                               treatment; prevention; diagnosis; infection; immunity;
Pneumovirus; identification; vaccine; cell receptor.
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                                                                                                                                                                                                                                                                                                                                                                     96.4%; Score 163; DB 19; 100.0%; Pred. No. 1.3e-15;
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Human respiratory syncytial virus

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Best Local Similarity
Matches 28; Conser
                          Disulfide-bond Disulfide-bond Modified-site
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Modified-site
                                                                                                                                                                                                                                                                                G protein; treatment;
                                                                                                                                                                                                                                                                                                                                Human RSV G protein fragment (aa. 149-157) derivative #5
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                                                                                                                                                                                                    Human respiratory syncytial virus
                                                                                                                                                                                                                                                         antibody; Pneumovirus;
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  "C-terminal amide"
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                                                                                                                                                                                                                                                         identification;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Peptide(s) derived from specific virus G protein - used to treat, against Pneumovirus infection
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                                                                                                  Modified-site
                                                                                                            Disulfide-bond
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                                                                                                                                              Modified-site
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100.0%;
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Pred. No. 1.3e-1
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                                                                                                                                                                                                     vaccine; cell receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                                                                                           Indels
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05-JUN-1996;

96AU-0000265 97WO-AU00351

04-JUN-1997; 11-DEC-1997.

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RESULT
NAW39251
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 28
                                                                                                                                                                                                                        Disulfide-bond
Disulfide-bond
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAW39244-W39252 are derivatives of the human respiratory syncytial virus (RSV) G protein corresponding to amino acids 149 to 197. These fragments can be used to treat, prevent or diagnose Pneumovirus, specifically RSV, infection and to immunise against such infections. Antibodies raised from these fragments may also be used diagnostically. The fragments may also be used to identify compounds able to inhibit binding of RSV to host cells and for characterisation of cell receptors for Pneumoviruses. When the fragments are used in combination with existing vaccines, they may allow a reduction in dose, and thus side effects, of the vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Peptide(s) derived from specific region of respiratory syncytial virus G protein - used to treat, prevent, diagnose and immunise against Pneumovirus infection
                                                                                                                                                                                                                                                                                                                                          G protein;
antibody; |
                                                                                                                                                                                                                                                                                                                                                                                                                                      AAW39251;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAW39251 standard; peptide; 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 4; Fig 12; 75pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1998-042117/04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (BIOM-) BIOMOLECULAR RES
                                                                                                                                                                                                                                                                                                               Human respiratory syncytial virus
                                                                                                                                                                                                                                                                                                                                                                               Human RSV G protein fragment (aa. 149-157) derivative #8
                                                                                                                                                                                                                                                                                                                                                                                                            27-AUG-1998
                                                                                                                                                           11-DEC-1997
                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                         Key
                                                                                                      05-JUN-1996;
                                                                                                                                 04-JUN-1997;
                                                                                                                                                                                  WO9746581-A1
Peptide(s) derived from
                          WPI; 1998-042117/04
                                                                            (BIOM-) BIOMOLECULAR RES INST
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                h 96.4%; Score 163; DB 19;
Similarity 100.0%; Pred. No. 1.3e-15;
28; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                          ; treatment; prevention; diagnosis;
Pneumovirus; identification; vaccin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   49 AA;
                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                      96AU-0000265
                                                                                                                                 97WO-AU00351
                                                                                                                                                                                                                        /note=
25..38
28..34
49
                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                            /note=
                                                                                                                                                                                                            "C-terminal amide"
                                                                                                                                                                                                                                                              "N-terminal biot group'
specific region
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                                                                                                                                                                                                                                                                                                                                          vaccine; cell receptor
of respiratory syncytial
                                                                                                                                                                                                                                                                                                                                                        infection; immunity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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RESULT 10
AAP70845
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Query Match
Best Local Similarity
Matches 28; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      virus {\sf G} protein - used to treat, prevent, diagnose and immunise against Pneumovirus infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 4; Fig 12; 75pp; English.
                                          A novel plasmid which comprises a DNA sequence encoding this protein, and the protein itself, are claimed, for use as HRSV vaccines. The vaccine can be administered to pregnant women ownen of child bearing age to stimulate maternal antibodies.
                                                                                                                                           Vaccines for human respiratory virus - comprising proteins or fragment encoded by a DNA sequence coding for human respiratory syncytial virus proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                           Human respiratory syncytial virus (HRSV)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                05-APR-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAP70845;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAP70845 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                 WO8704185-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Vaccine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence of
                                                                                                                 Disclosure; Chart 13; 57pp;
                                                                                                                                                                                                                                              (UYNC-) UNIV OF N CAROLINA (WERT/) WERTZ G W. (WERT/) WERTZ G W.
                                                                                                                                                                                                                                                                                                          14-JAN-1986;
                                                                                                                                                                                                                                                                                                                                       23-DEC-1986;
Sequence
                                                                                                                                                                                                                                                                                                                                                                    16-JUL-1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1987-206300/29
DB; AAN70784.
                             can also be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                49
 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human respiratory syncytial virus (HRSV) A2 strain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96.4%; Score 163; DB 19; llarity 100.0%; Pred. No. 1.3e-15; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first
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                                                                                                                                                                                                                                                                                                                                       86WO-US02756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                              vaccinated at 2-3
                                                                                                                  English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28
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                                months
                                of.
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                                                             women or to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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Query Match

96.4%;

Score 163;

DB 8;

Length 298;

G; gpG; vaccine

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RESULT 12
AAW47505
ID AAW476
XX AAW476
AC AAW476
XX DE HRSV 9
XX
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AAR25302
ID AAR2
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                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 28
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                                                                                                                                                                                                                                                                                                                                                                        The sequences of mRNA encoding HRSV structural proteins are given in AAQ29522-26. The proteins are F. G. 22K, 9.5K and major capsid protein N. The sequences and encoded proteins are useful for preparing vaccines against HRSV. The vaccines can be used to conferimmunity against respiratory tract infections on human subjects.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US5149650-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Vaccine; human respiratory syncytial virus; HRSV; major capsid protein; N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-MAR-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAR25302 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 18; 21pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Collins PL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human respiratory syncytial virus strain A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HSRV glycoprotein G
               HRSV glycoprotein
                                               11-JUN-1998
                                                                                                              AAW47605 standard;
                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vaccines for human respiratory virus - include structural genes coding for native structural viral proteins and immunogenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-JAN-1986;
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                                                                               AAW47605
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13-JUL-1988;
                                                                                                                                                                                              149
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DB; AAQ29623.
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                                                                                                                                                                                            kgrgnkppskpnndfhfevfnfvpcsic 176
                                                                                                                                                                                                                                                           Similarity 100 28; Conservative
                                                                                                                                                                                                                                                                                                                                             298
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                                               (first entry)
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                                                                                                                                                                                                                                                                                                                                             AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     86US-0818740
88US-0218737
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                                                                                                              Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (gpG).
                                                                                                                                                                                                                                                                           96.48;
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                                                                                                              298
                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                         Score 163; DB 13
Pred. No. 8.6e-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. 8.6e-15;
Mismatches 0;
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                                                                                                              A
                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                             DB 13;
                                                                                                                                                                                                                                                                                        Length 298;
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                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
AAP90441
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-JUL-1988;
14-JAN-1986;
23-DEC-1986;
11-JUN-1992;
12-MAY-1997;
                                                                                                  29-JUN-1989.
                                                                                                                                                                                                        Chimeric polypeptide; protein F; protein G;
                                                                                                                                                                                                                                                                                          01-NOV-1989
                                                                                                                                                                                                                                                                                                                          AAP90441;
                                                                                                                                                                                                                                                                                                                                                           AAP90441 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB;
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                                             23-DEC-1987;
                                                                            31-OCT-1988;
                                                                                                                                             WO8905823-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HRSV; glycoprotein F; gpF; glycoprotein
             (UPJO ) UPJOHN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1998-144802/13.
DB; AAV18736.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity 100.
28; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        298 AA;
                                                                                                                                                                                                                                                                                          (first entry)
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The present sequence was used in the development of a novel method for the production of human respiratory syncytial virus (HRSV) glycoprotein F (gpF) or glycoprotein G (gpG). The method comprises culturing eukaryotic host cells transfected with an isolated DNA sequence encoding HRSV gpF or gpG. The gp can be used to prepare vaccines against HRSV.
                                                                                                                                                                                                                                                                                            Chimeric human respiratory synctial virus glycoproteins F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Production of human respiratory syncytial virus glyco-protein F or G by culturing eukaryotic host cells transfected with corresponding
                                                                                                                                                                             Human respiratory syncytial virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Columns 27-28; 17pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 KQRONKPPSKPNNDFHFEVFNFVPCSIC 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  respiratory syncytial virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        88US-0218737.
86US-0818740.
86WO-US02756.
92US-0897171.
97US-0854783.
87US-0137387
                                          88WO-US03784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-0854783
                                                                                                                                                                                                                                                                                                                                                                                                                                    protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              96.4%; Score 163; 100.0%; Pred. No.
                                                                                                                                                                                                                          human respiratory vaccine.
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                                                                                                                                                                                                                                               syncytial virus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 19;
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RESULT 1
AAW39218
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       immunogenic fragments from both human respiratory glycoproteins: F and G. Can be used in vaccines.
E. coli, Chinese hamster ovary cells, murine C127 s. frugiperda.

    contg.
    f and G,

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chimeric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wathen M;
                                                                                                                                                                                                                                                                                                                                                                                               Human RSV
                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAW39218 standard;
                                                                                                                                                                                                                                                                                               Disulfide-bond Disulfide-bond
                                                                                                                                                                                                                                                                                                                                            Human
                                                                                                                                                                                                                                                                                                                                                                                                                      27 - AUG - 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                         AAW39218
AAW39217-W39234 are fragments of the human respiratory syncytial virus (RSV) G protein corresponding to amino acids 149 to 197. These fragments can be used to treat, prevent or diagnostics specifically RSV, infection and to immunise against such infections. Antibodies raised from these fragments may also be used diagnostically. The fragments may also be used to inhibit binding of RSV to
                                                                                              Peptide(s) derived from specific virus G protein - used to treat, against Pneumovirus infection
                                                                                                                                                                                     (BIOM-) BIOMOLECULAR
                                                                                                                                                                                                           05-JUN-1996;
                                                                                                                                                                                                                                04-JUN-1997;
                                                                                                                                                                                                                                                     11-DEC-1997.
                                                                                                                                                                                                                                                                          WO9746581-A1
                                                                                                                                          WPI: 1998-042117/04
                                                                            Claim 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    543
                                                                                                                                                                                                                                                                                                                                                                          protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
les 28; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 KQRQNKPPSKPNNDFHFEVFNFVPCSIC 28
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                                                                                                                                                                                                                                                                                                                                         respiratory syncytial virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human respiratory syncytial virus polypeptides(s) immunogenic fragments from HRSV glycoproteins for vaccine prodn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        page 47-48;
                                                                           Fig 2;
                                                                                                                                                                                                                                                                                                                                                                                              A subtype G
                                                                                                                                                                                                                                                                                                                                                                Pneumovirus; identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     681 AA;
                                                                                                                                                                                                                                                                                                                                                                         treatment; prevention; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                97WO-AU00351
                                                                                                                                                                                                           96AU-0000265
                                                                         75pp;
                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                              peptide; 49 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         96.4%;
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                                                                                                                                                                                     RES INST
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                                                                            English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 163;
Pred. No.
                                                                                                                                                                                       LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                          region of respiratory prevent, diagnose and
                                                                                                                                                                                                                                                                                                                                                                 vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2e-14;
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                                                                                                                                                                                                                                                                                                                                                                           infection;
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/ syncytial virus
Hosts are, eg
/ cells and
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                                                                                                             syncytial immunise
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KQRQNKPPSKPNNDFHFEVFNFVPCSIC

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RESULT
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Query Match
Best Local S
Matches 27
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  host cells and for characterisation of cell receptors for Pneumoviruses When the fragments are used in combination with existing vaccines, they may allow a reduction in dose, and thus side effects, of the vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       G protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                         AAW39217-W39234 are fragments of the human respiratory syncytial virus (RSV) G protein corresponding to amino acids 149 to 197. These fragments can be used to treat, prevent or diagnose Pneumovirus, specifically RSV, infection and to immunise against such infections. Antibodies raised from these fragments may also be used diagnostically. The fragments may also be used to inhibit binding of RSV to also be used to identify compounds able to inhibit binding of RSV to
                                                                                                                                                                                                                                             Peptide(s) derived from specific region of respiratory virus G protein - used to treat, prevent, diagnose and against Pneumovirus infection
                                                                                                                                                                                                                                                                                                                                                                                                     04-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disulfide-bond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disulfide-bond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human respiratory syncytial virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-AUG-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAW39221 standard;
                                                                                                                                                                                                                    Claim 5; Fig 2;
                                                                                                                                                                                                                                                                                                 WPI; 1998-042117/04
                                                                                                                                                                                                                                                                                                                          Gorman
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                                                              Sequence
                                                                                     host cells and for characterisation of cell receptors for Pneumoviruses when the fragments are used in combination with existing vaccines, they may allow a reduction in dose, and thus side effects, of the vaccine.
                                                                                                                                                                                                                                                                                                                                                 (BIOM-) BIOMOLECULAR RES INST LTD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pneumovirus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           treatment; prevention; diagnosis; infection; pneumovirus; identification; vaccine; cell recommon vaccine; cell recommon vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          49
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                                                                                                                                                                                                                    75pp; English.
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 Pred. No. 3.5e
1; Mismatches
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.5e-15;
                DB 19;
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Search completed: September 4, 2002, 17:36:21 Job time: 255 sec

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Result
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Maximum DB seq
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Perfect score:
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       Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and is derived by analysis of the total
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Gapop 10.0 , Gapext 0.
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pir2:*
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first 45 summaries
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AC0919
S01913
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JQ1207
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JQ1204
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Compugen Ltd
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(without alignments)
188.793 Million cell updates/sec
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67.0	0	27.8	27.8	27.8	28.1	28.1	28.4	28.4	28.4	28.4	28.7	29.0	29.3	29.6	29.6	29.6
9	n	388	212	113	895	289	846	199	513	340	633	419	104	398	290	96
	ر	N	N	N	N	N	Ν	N	N	N	N	N	N	2	2	N
001224	10100	T32994	G69838	S43435	T45738	AH2478	F75525	A58768	T30733	F85256	T47524	D86453	G84607	D81397	G82360	H84381
חמרדבסמדוומדוו ליברמ	nual oobindin nroom	hypothetical prote	hypothetical prote	nuclear receptor p	hypothetical prote	transposase all700	outer membrane pro	ATP-dependent RNA	A-type inclusion b	hypothetical prote	hypothetical prote	CDS protein F9L11.	hypothetical prote	probable periplasm	diaminopimelate ep	hypothetical prote

ALIGNMENTS

RESULT

attachment protein - human respiratory syncytial virus (strain RSB1734)
N;Alternate names: G protein
C;Species: human respiratory syncytial virus
C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 16-Feb-1997

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C:Accession: JQ1205

R:Cane, P.A.; Matthews, D.A.; Pringle, C.R.

J. Gen. Virol. 72, 2091-2096, 1991.

A:Title: "Identification of variable domains of the attachment (G) protein of subgroup A; Reference number: JQ1204; MUID:91374005

A; Recession: JQ1205

A; Molecule type: mRNA
A; Residues: 1-297 <CAN>
C:Comment: Respiratory syncytial virus commonly causes severe lower respiratory tract lidren and adults.
C:Superfamily: respiratory syncytial virus major surface glycoprotein G
C:Keywords: glycoprotein; transmembrane protein
C:Keywords: glycoprotein; transmembrane protein
C:Keywords: glycoprotein; transmembrane protein
                                                                                                                                              R:Cane, P.A.; Matthews, D.A.; Pringle, C.R.
J. Gen. Virol. 72, 2091-2096, 1991
A:Title: Identification of variable domains of the attachment (G) protein of subgroup A:Reference number: JQ1204; MUID:91374005
A:Accession: JQ1204 MUID:91374005
A:Molecule type: mRNA
A:Molecule type: mRNA
A:Residues: 1-297 < CAND
C:Comment: Respiratory syncytial virus commonly causes severe lower respiratory tract
                                                                       C;Superfamily: respiratory syncytial virus major surface glycoprotein C;Keywords: glycoprotein; transmembrane protein F;85,103,135,144,237,273/Binding site: carbohydrate (Asn) (covalent)
                                                                                                                                                                                                                                                                                                                                                                                  N;Alternate names: G protein
C;Species: human respiratory syncytial virus
C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 16-Feb-1997
C;Accession: JQ1204
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Best Local
  Query Match
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hes 28; Conservative
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100.0%;
     96.48;
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Pred. No.
  Score 163;
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Length 297;
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major surface glycoprotein G - human respiratory syncytial virus
C;Species: human respiratory syncytial virus
C;Species: human respiratory syncytial virus
C;Date: 28-May-1986 #sequence_revision 28-May-1986 #text_change 24-Sep-1999.
C;Accession: A40408; A93599; A04039
R;Wertz, G.W.; Collins, P.L.; Huang, Y.; Gruber, C.; Levine, S.; Ball, L.A.
Proc. Natl, Acad. Sci. U.S.A. 82, 4075-4079, 1985
A;Title: Nucleotide sequence of the G protein gene of human respiratory syncytial virus
A;Reference number: A94048; MUID:85216636
A;Accession: A94048
A;Residues: 1-298 cwEr>
A;Cross-references: GB:M1486; GB:K01459; GB:K02719; GB:K03348; GB:K03349; GB:M11217; GE
7.1; PID:933932
A;Note: residues 207-298 are identical with residues 376-467 of the nucleocapsid protein
A;Note: this protein may carry 40-80 separate O-linked carbohydrate chains distributed a
R;Satake, M.; Coligan, J.E.; Elango, N.; Nouriby, E.; Venkatesan, S.
Nucleic Acids Res. 13, 7795-7812, 1985
A;Title: Respiratory syncytial virus envelope glycoprotein (G) has a novel structure.
A;Reference number: A93599; MUID:86087198
A;Ressidues: 1-298 cSAT>
A;Cross-references: GB:X03149; NID:g60997; PIDN:CAA26928.1; PID:g60998
C;Superfamily: respiratory syncytial virus major surface glycoprotein G
C;Keywords: glycoprotein; transmembrane protein
F;38-66/Domain: transmembrane #status predicted <TNM>
F;85,135,237,251/Binding site: carbohydrate (Asn) (covalent) #status predicted

Assidues: Carbohydrate (Asn) (covalent)
                                                                                                                                                                                                                                                                                                   attachment protein - human respiratory syncytial virus N;Alternate names: G protein C;Species: human respiratory syncytial virus C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #tex C;Accession: JQ1208 R;Cane, P.A.; Matthews, D.A.; Pringle, C.R. J. Gen. Virol. 72, 2091-2096, 1991 J. Gen. Virol. 72, 2091-2096, 1991 A;Title: Identification of variable domains of the atta A;Reference number: JQ1204; MUID:91374005 A;Accession: JQ1208
                                                                                                                                                                                                                             A:Molecule type: mRNA
A:Residues: 1-297 <CAN>
C:Comment: Respiratory syncytial virus commonly causes
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                                                                                                                                                                                                       ildren and adults.
Query Match
Best Local S
Matches 27
                                                                                                                      Superfamily: respiratory syncytial virus major surface glycoprotein G;Keywords: glycoprotein; transmembrane protein; syncytial virus major surface glycoprotein; transmembrane protein;85,103,135,237,251,273,294/Binding site: carbohydrate (Asn) (covalent)
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Best Local Similarity
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  Local Similarity
hes 27; Conserv
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  Conservative
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                           94.78;
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  1.
                        Score 160; DB 2;
Pred. No. 8.3e-15;
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Pred. No. 3.
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; Mismatches
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hes 0;
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                                                Length 297;
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                                                                                                                                                                                                                                  severe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (strain RSB6256)
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                                                                                                                                                                                                                                                                                                                                                                 (G)
                                                                                                                                                                                                                                  lower respiratory
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A; Reference number: JQ1204; MUID:91374005
A; Accession: JQ1207
A; Molecule type: mRNA
A; Residues: 1-298 < CCAN>
A; Note: the authors translated the codon ACC for residue 4 as Asn and C; Comment: Respiratory syncytial virus commonly causes severe lower re ildren and adults.
C; Superfamily: respiratory syncytial virus major surface glycoprotein C; Keywords: glycoprotein; transmembrane protein
C; Keywords: glycoprotein; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A:Molecule type: mRNA
A:Residues: 1-298 <GAR>
C:Superfamily: respiratory syncytial virus major surfa
C:Keywords: 9lycoprotein: transmembrane protein
F:41-63/Domain: transmembrane #status predicted <TMN>
F:85,103,135,179,237,250,251,273,294/Binding site: car
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A;Title: Frame shift mutations as a novel mechanism A;Reference number: S12279; MUID:91065351
A;Accession: S12279
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J. Gen. Virol. 72, 2091-2096, 1991
A;Title: Identification of variable domains
A;Reference number: JQ1204; MUID:91374005
                                                                                                                                                                                                                                                                                                                                                                                                                                                   N;Alternate names: G protein c;Species: human respiratory syncytial C;Date: 31-Mar-1992 *sequence_revision C;Accession: J01207
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A; Residues: 1-298 <JOH>
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Best Local Similarity 96.4
Matches 27; Conservative
                                                                                Matches
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Best Local (
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                                    1 KORONKPPSKPNNDFHFEVFNFVPCSIC 28
KQRQNKPPNKPNNDFHFEVFNFVPCSIC 176
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                                                                                                   Similarity
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Pred. No. 8
                                                                                               Score 160;
Pred. No. 8
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T.; Lopez, J.A.:
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.3e-15;
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Melero, J.A
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RESULT

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JC5680

G protein - Human respiratory syncytial virus
C:Species: Human respiratory syncytial virus
C:Species: Human respiratory syncytial virus
C:Date: 11-Nov-1997 #sequence_revision 11-Nov-1997 #text_change 26-Feb-1998
C:Accession: JC5680
R:Geng, X:; Wang, Z:; Qian, Y:; Zhu, R.; Deng, J.; Du, J.; Zhu, Z.
Chinese J. Virol. 12, 317-322, 1996
A;Title: Molecular analysis of G protein gene of a respiratory syncytial virus strain is
A;Reference number: JC5680
A;Accession: JC5680
A;Accession: JC5680
A;Molecule type: mRNA
A;Residues: 1-298 <GEN>
A;Experimental source: Strain B79
A;Note: the authors translated the codon TTT for residue 165 and 170 as Glu, TTC for res
C;Superfamily: respiratory syncytial virus major surface glycoprotein G
F;J-38/Domain: transmembrane #status predicted <INT>
F;J-36/Domain: transmembrane #status predicted <INT>
F;J-56/Domain: curracellular #status predicted <INT>
F;J-56/Domain: transmembrane #stat
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C; Superfami:
C; Keywords:
F; 85, 103, 13
                                                                                                                N;Alternate names: G protein
;Species: human respiratory syncytial virus
C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992
C;Accession: JQ1209
R;Cane, P.A.; Matthews, D.A.; Pringle, C.R.
A;Title: Identification of variable domains of the
                                                                                                                                                                                                                                                                                                                                                                                         RESULT
JQ1209
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A; Residues: 1-297 <CAN>
C; Comment: Respiratory
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R:Cane, P.A.; Matthews, D.A.; Pringle, C.R.
J. Gen. Virol. 72, 2091-2096, 1991
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C;Species: human respiratory syncytial virus
C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 16-Feb-1997
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                                                   A:Reference number: JQ1204; MUID:91374005
A:Accession: JQ1209
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A; Molecule type: mRNA
A; Residues: 1-297 < CAN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
Matches 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Superfamily: respiratory syncytial virus major surface glycoprotein; Keywords: glycoprotein; transmembrane protein; syncytial virus major surface glycoprotein; 85,103,135,237,251,273,294/Binding site: carbohydrate (Asn) (covale)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       149 KQRQKKPPNKPNNDFHFEVFNFVPCSIC 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
nes 27; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    adults.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Respiratory syncytial virus commonly causes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein - human respiratory syncytial virus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 154; DB
Pred. No. 5.7e
1; Mismatches
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Pred. No. 8.3e-15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 2;
.7e-14;
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                                                                                                                             attachment
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                                                                                                                                                                                                                                                        #text_change
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C:Accession: A37077
R;Sullender, W.M.; Anderson, K.; Wertz, G.W.
Virology 178, 195-203, 1990
A;Title: The respiratory syncytial virus subgroup
gous subgroup virus challenge.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Molecule type: mRNA
A;Residues: 1-292 <JOHA
A;Cross-references: GB:M17213; NID:g333942; PIDN:AAA47412.1;
A;Cross-references: GB:M17213; NID:g333942; PIDN:AAA47412.1;
C;Superfamily: respiratory syncytial virus major surface glycC;Superfamily: respiratory syncytial virus major surface glycC;Keywords: glycOprotein; transmembrane protein
F;41-63/Domain: transmembrane #status predicted <TMN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Johnson, P.R.; Spriggs, M.K.; Olmsted, R.A.; Collins, P.L. Proc. Natl. Acad. Sci. U.S.A. 84, 5625-5629, 1987
A;Title: The G glycoprotein of human respiratory syncytial viruses of subgroups A;Reference number: A32703; MUID:87289657
A;Accession: B32703
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                                                                                                 C:Superfamily: respiratory syncytial virus major surface glycoprotein (Keywords: glycoprotein); transmembrane protein E;45-63/Domain: transmembrane #status predicted <TMN> E;81,86,100,230,290/Binding site: carbohydrate (Asn) (covalent) #statu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      major surface glycoprotein G · human respiratory syncytial virus (strain 18537) C;Species: human respiratory syncytial virus C;Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 16-Jul-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Comment: Respiratory syncytial virus commonly causes severe lower respiratory tract er children and adults.
                                                                                                                                                                                                                                                   A;Molecule type: mRNA
A;Residues: 1-292 <SUL>
A;Cross-references: EMBL:M55633; NID:g333944; PIDN:AAA47413.1; PID:g333945
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       major surface glycoprotein G - human respiratory syncytial virus (strain 8/60) N;Alternate names: attachment glycoprotein G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                          A; Gene:
                                                                                                                                                                                                                                   C; Genetics:
                                                                                                                                                                                                                                                                                                                                    A; Reference number: A37077; A; Accession: A37077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C; Date:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C; Species: human respiratory syncytial virus
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Best Local
Query Match
Best Local Similarity
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 16.Jul-1999
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25; Conser
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76.98;
72.48;
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89.3%;
                                                                                                                                                                                                                                                                                                                                                                  MUID: 90357765
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Pred. No. 4e-13;
1; Mismatches
Score 130; DB 1; Pred. No. 1.3e-10;
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Pred. No. 1.3e-10;
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                     Length 292;
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                                                                                                      (covalent) #status
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Conservative

2,

Mismatches

Indels

0

Gaps

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gene el protein - mouse
(:Specles: Mus musculus (house mouse)
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 13-Jan-1995
C:Accession: $48861
R:Nehls, M.: Pfeifer, D.: Lueno, K.: Boehm, T.
submitted to the EMBL Data Library, September 1994
A:Description: A transcription map of the region flanked by betaA3-crystallin and neurof A:Reference number: $48861
A:Reference number: $48861
A:Accession: $48861
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-1188 <NEH>
A:Residues: 1-1188 <NEH>
A:Cross-references: EMBL:X81632
glycoprotein G - ovine respiratory syncytial virus
C:Species: ovine respiratory syncytial virus
C:Species: ovine respiratory syncytial virus
C:Accession: J02388
R:Mallipeddi, S.K.; Samal, S.K.
J. Gen. Virol. 74, 2787-2791, 1993
A:Title: Analysis of the ovine respiratory syncytial virus (RSV) G glycoprotein gene A:Accession: J02388; MUID:94103788
A:Accession: J02388; MUID:94103788
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J. Cell Biol. 137, 881-890, 1997
A:Tttle: The Drosophila gene abnormal spindle encodes a microtubule-associated protein A:Reference number: Z17792; MUID:97296495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C:Species: Drosophila melanogaster
C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 17-Nov-2000
C:Accession: T13845
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues; 1-1861 <SAU>
A;Cross-references: EMBL:U95171; NID:g1930121; PID:g1930122; PIDN:AAB51540.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Reference number:
A; Accession: T13845
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                                                                                                                                                                                                                                              RESULT
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Best Local Similarity
Matches 10; Conserv
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                                                                                                                                                                                                                                                                                                                 410 RNMPPLKFYHDFHSEIFQYTVVWGPC 435
                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 is required for the normal function of
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                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                  33.7%;
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Pred. No. 9.
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Search completed: Job time: 132 sec

September

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A:Cross references: GB:S67863; NID:g544771; PIDN:AAB29551.1; PID:g544773
A:Experimental source: WSU 83-1578
C:Superfamily: respiratory syncytial virus major surface glycoprotein G C:Keywords: glycoprotein; transmembrane protein
F:1-37/Domain: intracellular *status predicted <INT>
F:38-64/Domain: transmembrane *status predicted <TMM>
F:65-263/Domain: extracellular *status predicted <EXT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C:Accession: A48732
R:Alansari, H.: Potgieter, L.N.
Virology 196, 873-877, 1993
A;Title: Nucleotide sequence analysis of the ovine respiratory syncytial virus (A:Reference number: A48732; MUID:93383418
A;Accession: A48732
A;Ac
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TAC1_HUMAN
NCB1_MOUSE
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	P54280 schizosacch	P06681 homo sapien	P38330 saccharomyc	Q9mt28 solanum tub	P56910 rhizobium m	008705 gallus gall	P49711 homo sapien	P04774 rattus norv	P35498 homo sapien	P43243 homo sapien	P43244 rattus norv	P41743 homo sapien	

RESULT VGLG_H ID V AC P DT 0 DT 0 DT 0	Qy Db .	Ma Qu Ma	SQ	E F	FT	rij ri	χ	F F	DR	88	88	38	86	S E	RT.	Z Z Z E	RX	77 F		8	0 0	GN				ΑC	RESULT
LIT 2 LHRSV3 VGLG_HRSV3 STANDARD; PRT; 297 AA. P27022; 01-AUG-1992 (Rel. 23, Created) 01-AUG-1992 (Rel. 23, Last sequence update) 01-AUG-1992 (Rel. 23, Last annotation update)	KQRQNKPPSKPNNDFHFEVFNFVPCSIC 28 	Query Match 96.4%; Score 163; .DB 1; Length 297; Best Local Similarity 100.0%; Pred. No. 6.2e-15; Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps	237 237 N-LINKED (GLCNAC) (POTENTIAL) 297 AA; 32745 MW; FC72A/F3A8EBF67C CRC64;	KED	67 297 EXTRACELLULAR (POTENTIA	TRANSMEM 38 66 POTENTIAL.	embrane; Glycoprotein.	InterPro; IPRUUU925; Glycoprot_G. Pfam: PF00802; Glycoprotein G; 1.	04; JQ1204.	-!- PTM: MAY CARRY 40-80 SEPARATE O-LINKED CARBOHYDRATE CHAINS DISTRIBUTED AMONG THE 91 SERINE AND THREONINE RESIDUES.	CELLS AND INCORPORATED IN THE MEMBRANE OF THE VIRIONS.	USECULARIA SHE SOLVENIS	RESPIRATORY SYNCYTIAL VIRUS G PROTEIN LACKS BOTH NEURAMINIDASE AND		-	Acmains of the attachment (G) protein	MEDLINE=91374005; PubMed=1895054;	SEQUENCE FROM N.A.	NCBI_TaxID=11252;	Paramyxoviridae: Pneumovirinae; Pneumovirus.	Human respiratory syncytial virus (strain rsb642). Viruses: ssRNA negative-strand viruses: Mononegavirales:		e alvcoprotein	23, Las	(Rel. 23,	VGLG_HRSV2 STANDARD; PRT; 297 AA.	LT 1 LHRSV2

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L. Gen. Virol. 72:2091-2096(1991)

C. I. FUCTION. UNLIKE THE OTHER PARAMYXOVIRUS ATTACHMENT PROTEINS, THE CRESPIRATORY SYNCYTIAL VIRUS G PROTEIN LACKS BOTH NEURAMINIDASE AND HEMAGRIUTINATING ACTIVITIES.

C. HEMAGRIUTINATING ACTIVITIES.

C. I. SUBCELLULAR LOCATION: EXRRESSED ON THE SURFACE OF THE INFECTED CELLS AND INCORPORATED IN THE MEMBRANE OF THE VIRIONS.

PTM: MAY CARRY 40-80 SEPARATE O-LINKED CARBOHYDRATE CHAINS DISTRIBUTED AMONG THE 91 SERINE AND THREONINE RESIDUES

PIR; JO1205; JO1205.

InterPro; IPRONOOSE. ~ .
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Matches 28
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                                                                                                                                                                                                           SEQUENCE FROM N.A.

MEDILINE-85216636; PubMed=3858865;

Mertz G.W., Collins P.L., Huang Y., Gruber C., Levine S., Ball L.A.;

"Nucleotide sequence of the G protein gene of human respiratory

syncytial virus reveals an unusual type of viral membrane protein.";

Proc. Natl. Acad. Sci. U.S.A. 82:4075-4079(1985).
                                                                                                                                                                                                                                                                                                                                                Viruses; ssRNA negative-strand Paramyxoviridae; Pneumovirinae; NCBI_TaxID=11259;
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                                                                                                                                                                                                                                                                                                                                                                       Human respiratory syncytial virus (strain A2).
Viruses; ssRNA negative-strand viruses; Mononegavirales.
Paramyxoviridae; Pneumovirinae; Pneumovirus.
SEQUENCE FROM N.A.
MEDLINE-95266253; PubMed-7747420;
Connors M., Crowe J.E. Jr., Firestone C.Y.,
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MEDLINE-86067198; PubMed-4069997;
Satake M., Coligan J.E., Elango N., No
Respiratory syncytial virus envelope
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(Rel. 01, Last sequence update)
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ce glycoprotein G (Attachment glycoprotein
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"-LINKED (GLCNAC. . .) (POTENTIAL)

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N-LINKED (GLCNAC. . .) (POTENTIAL)

48448F9E091E1802 CRC64;
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pe glycoprotein
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    Murphy
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PIR;

A04039; MGNZ

InterPro;

PF00802;

CYTOPLASMIC

(POTENTIAL).

EXTRACELLULAR (POTENTIAL)

CARBOHYD DOMAIN TRANSMEM DOMAIN Transmembrane:

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EMBL; M11486; AAB59857.1;
EMBL; X03149; CAA26928.1;
EMBL; U50362; AAB886663.1;
EMBL; U50363; AAB88675.1;
EMBL; U50363; AAB88675.1;
EMBL; U63644; AAC55969.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "A cold-passaged,
virus contains mu
Virology 208:478-
                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a c between the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and fo entitles requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gene
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SEQUENCE FROM N.A.
MEDLINE=97187925; PubMed=9035372;
Tr., Firestone C.Y., Whitehead S.S.,
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                                                                                                                                                                                                                                                                                       CELLS AND INCORPORATED IN THE MEMBRANE OF THE VIRIONS.

PTM: MAY CARRY 40-80 SEPARATE O-LINKED CARBOHYDRATE CHAINS DISTRIBUTED AMONG THE 91 SERINE AND THREONINE RESIDUES.
                                                                                                                                                                                                                                                                                                                                                                                               FUNCTION: UNLIKE THE OTHER PARAMYXOVIRUS ATT
RESPIRATORY SYNCYTIAL VIRUS G PROTEIN LACKS
HEMAGGLUTINATING ACTIVITIES.
SUBCELLULAR LOCATION: EXPRESSED ON THE SURFA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genes 13:269-273(1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tion of the ts phenotype by a chemically mutagenized co human respiratory syncytial virus vaccine candidate reacquisition of a single mutation in the polymerase (L)
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Matches Query Match Best Local CARBOHYD CARBOHYD SEQUENCE Similarity 100 28; Conservative 96.4%; .0%; 0 Score 163; Pred. No. N-LINKED (GLCNAC...)
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N-LINKED (GLCNAC...)
993C3D2DD68BC634 CRC6 Mismatches σ DB 1; 1 6.2e-15; es 0; CRC64; Length 298 Indels) (POTENTIAL).) (POTENTIAL).) (POTENTIAL). 0 Gaps 0

В

149

1 KORONKPPSKPNNDFHFEVFNFVPCSIC 28

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VGLG_HRSV6
P27025;
01-AUG-1992
01-AUG-1992
01-AUG-1992
SEQUENCE FROM N.A. MEDLINE=91374005; PubMed=1895054; Cane P.A., Matthews D.A., Pringle
                                                                                                                                                    HRSV6
                                                 Viruses; ssRNA negative-strand viruses; Paramyxoviridae; Pneumovirinae; Pneumov
                   SEQUENCE FROM N
                                    NCBI_TaxID=11256
                                                                     Human
                                                                                         Major
                                                                     respiratory syncytial virus (strain rsb6256)
                                                                                         surface
                                                                                      (Rel. 23, Created)
(Rel. 23, Last sequence updat
(Rel. 23, Last annotation upo
                                                                                                                                          STANDARD;
 Pringle
 C.R.;
                                                                                                            update)
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ent glycoprotein
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01-AUG-1992
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                                                                                                                                                                                                                                  Cane P.A., Matthews D.A., Pringle C.R.;
"Identification of variable domains of the attachment (G) protein subgroup A respiratory syncytial viruses.";
J. Gen. virol. 72:2091-2096(1991)
                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A. MEDLINE-91374005; PubMed-1895054;
                                                                                                                                                                                                                                                                                                                        Paramyxoviridae;
NCBI_TaxID=11255;
                                                                                                                                                                                                                                                                                                                                                Human respiratory syncytial virus (strain rsb6190). Viruses; ssRNA negative-strand viruses; Mononegavirales;
                                                                                                                                                                                                                                                                                                                                                                                    01-AUG-1992 (Rel. 23, Created)
01-AUG-1992 (Rel. 23, Last sequence update)
30-HAY-2000 (Rel. 39, Last annotation update)
Major surface glycoprotein G (Attachment glycoprotein
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J. Gen. Virol. 72:2091-2096(1991).

-i. FUNCTION: UNLIKE THE OTHER PARAMYXOVIRUS ATTACHMENT PROTEINS, 7

-i. FUNCTION: UNLIKE THE OTHER PARAMYXOVIRUS ATTACHMENT PROTEINS, 7

RESPIRATORY SYNCYTIAL VIRUS G PROTEIN LACKS BOTH NEURAMINIDASE

HEMAGGLUTINATING ACTIVITIES.
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pr00802; Glycoprotein_G; 1.
membrane; Glycoprotein.
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PF00802; Glycoprotein_G; 1.
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EXTRACELLULAR (POTENTIAL).

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N-LINKED (GLCNAC...) (POT

N-LINKED (GLCNAC...) (POT
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Pred. No. 1.6e-14;
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between the Swiss Institute of Bioinformatics and the EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                           Johnson P.R., Spriggs M.K., Olmsted R.A., Collins P.L.; "The G glycoprotein of human respiratory syncytial viruses subgroups A and B: extensive sequence divergence between
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human respiratory syncytial virus (subgroup A / strain Long).
Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Pneumovirinae; Pneumovirus.
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                                                                                                                                                                                                                                    EMBL; M17212;
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                                                                                                                                                                                                                                                                                             the European Bioinformatics Institute.
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NCBI_TaxID=11260;
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KQRQNKPPNKPNNDFHFEVFNFVPCSIC
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(Rel. 33, Last annotation upo
ce glycoprotein G (Attachment
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Ol-AUG-1992 (Rel. 23, Create,,
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Ol-AUG-1992 (Rel. 23, Cast annotation
Ol-AUG-1992 (Rel. 23, Create,,
Ol-AUG-1992 (Rel. 23, Create,,)
Ol-AUG-1992 (Rel. 24, Create,,)
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P27023;
01-AUG-1992 (Rel. 23, Created)
01-AUG-1992 (Rel. 23, Last sequence update)
01-AUG-1992 (Rel. 23, Last annotation update)
01-AUG-1992 (Rel. 23, Last annotation update)
Major surface glycoprotein G (Attachment glycoprotein
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J. Gen. Virol. 72:2091-2096(1991)
-i- FUNCTION: UNLIKE THE OTHER PARAMYXOVIRUS ATTACHMENT PROTEINS, TRESPIRATORY SYNCYTIAL VIRUS G PROTEIN LACKS BOTH NEURAMINIDASE HEMAGGLUTINATING ACTIVITIES.
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                                SEQUENCE FROM N.A.
MEDLINE=91374005: PubMed=1895054;
Cane P.A., Matthews D.A., Pringle C.R.;
"Identification of variable domains of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human respiratory syncytial virus (strain rsb5857).
Viruses; ssRNA negative-strand viruses; Mononegavirales,
Paramyxoviridae; Pneumovirinae; Pneumovirus.
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NCBI_TaxID=11257;
                                                                                                                                                                                                                                                                                                                                                                                                               Human respiratory syncytial virus (strain rsb6614) Viruses; ssRNA negative-strand viruses; Mononegavi
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PTM: MAY CARRY 40-80 SEPARATE OLITINED CARBOHYDRATE CHAINS DISTRIBUTED AMONG THE 91 SERINE AND THREONINE RESIDUES.
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Pred. No. 1e-13;
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MEDLINE-87289657; PubMed=2441388;

X MEDLINE-87289657; PubMed=2441388;

X Johnson P.R., Spriggs M.K., Olmsted R.A., Collins P.L.;

Johnson P.R., Spriggs M.K., Olmsted R.A., Collins P.L.;

Y The G glycoprotein of human respiratory syncytial viruses of the subgroups A and B: extensive sequence divergence between antigenically related proteins.";

Y antigenically related proteins.";

Y antigenically related proteins.";

Y antigenically related proteins.";

Y antigenically related proteins. THE Proc. Natl. Acad. Sci. U.S.A. 84:5625-5629(1987).

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01-FEB-1991 (Rel. 17, Created)
01-FEB-1991 (Rel. 17, Last sequence update)
01-NOV-1991 (Rel. 20, Last annotation update)
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                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entropean Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human respiratory syncytial virus (subgroup B / strain 18537). Viruses; ssRNA negative-strand viruses; Mononegavirales; Paramyxoviridae; Pneumovirinae; Pneumovirus.
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-:- PTM: MAY CARRY 40-80 SEPARATE O-LINKED CARROHYDBATE CHAINS DISTRIBUTED AMONG THE 91 SERINE AND THREONINE RESIDUES.
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FUNCTION: UNLIKE THE OTHER PARAMYXOVIRUS ATTACHMENT PROTEINS, TRESPIRATORY SYNCYTIAL VIRUS G PROTEIN LACKS BOTH NEURAMINIDASE HEMAGGGUOTINATING ACTIVITIES.
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EMBL; M17213; AAA47412.1; PIR; B32703; MGNZ18.

InterPro;

IPR000925; Glycoprot_G.
0802; Glycoprotein_G; 1.

entities requires a license agreement (or send an email to license@isb-sib.ch)

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EMBL: M3545: AAA4/****
EMBL: M73545: AAA4/****
PIR: A37077; MGNZ60.
R InterPro; IPR000925; Glycoprotein_G: 1.
R Pfam: PF00802: Glycoprotein_G: 1.
KW Transmembrane: Glycoprotein.
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Best Local Similarity
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P23041;
01-NOV-1991
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CARBOHYD
CARBOHYD
CARBOHYD
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J. Virol. 65:5425-5434(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sullender W.M., Anderson K., Wertz G.W.;
"The respiratory syncytial virus subgroup B attachment glycoprotein: analysis of sequence, expression from a recombinant vector, and evaluation as an immunogen against homologous and heterologous subgroup virus challenge.";
                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Major
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01-AUG-1992
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Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Pneumovirinae; Pneumovirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                        entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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CELLS AND INCOPPORATED IN THE MEMBRANE OF THE VIRIONS.
PTM: MAY CARRY 40-80 SEPARATE O'LINKED CARBOHYDRATE CHAINS
DISTRIBUTED AMONG THE 91 SERINE AND THREONINE RESIDUES.
                                                                                                                                                                                                                                                                                                                              FUNCTION: UNLIKE THE OTHER PARAMYXOVIRUS ATTACHMENT PROTEINS, 7 RESPIRATORY SYNCYTIAL VIRUS G. PROTEIN LACKS BOTH NEURAMINIDASE HEMAGGLUTINATING ACTIVITIES.
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ce glycoprotein G (Attachment glycoprotein
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"-LINKED (GLCNAC...) (POTENTIAL).

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N-LINKED (GLCNAC...) (POTENTIAL).

BC8C59F69CA7AFC2 CRC64;
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SEQUENCE
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Q86695;
                                                                  DISULFID DISULFID
                                                                                                                                                                                                                                                                                                                                                                            Mallipeddi S.K., Samal S.K.;

"Analysis of the ovine respiratory syncytial virus (RSV) G
glycoprotein gene defines a subgroup of ungulate RSV.";

J. Gen. Virol. 74:2787-2791(1993).

-!- FUNCTION: UNLIKE THE OTHER PARAMYXOVIRUS ATTACHMENT PROTEINS,
RESPIRATORY SYNCYTIAL VIRUS G PROTEIN LACKS BOTH NEURAMINIDAS!
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SEQUENCE
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                                                                                                                    Pfam; PF00802; Glycoprotein_G;
Transmembrane; Glycoprotein.
DOMAIN 1 37 C'
                                                                                                                                                                   EMBL; S67863; AAB29551.1;
EMBL; S67862; AAB29551.1;
HSSP; P22261; 1BRV
                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the El the European Bioinformatics Institute. There are no rest
                                                                                                                                                                                                                                                                                                                                 -!- SUBCELLULAR LOCATION: EXPRESSED ON THE SURFACE OF THE INFECT CELLS AND INCORPORATED IN THE MEMBRANE OF THE VIRIONS.
-!- SIMILARITY: TO THE G PROTEINS OF EITHER THE SUBGROUP A OR B
                                                                                                                                                                                                                   entities requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                          use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Viruses; ssRNA negative-strand viruses; Mono Paramyxoviridae; Pneumovirinae; Pneumovirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ovine respiratory syncytial virus (strain WSU 83-1578)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
15-DEC-1998 (Rel. 37, Last annotation update)
Major surface glycoprotein G (Attachment glycoprotein
                                                                                                                                                                                                                                            modified and this statement is not removed.
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                               CARBOHYD
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16-OCT-2001 (Rel. 40, Created)
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16-OCT-2001 (Rel. 40, Last annotation update)
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16-OCT-2001 (Rel. 40, Cast annotation update)
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entities requires a license agreement (See or send an email to license@isb-sib.ch).
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16-OCT-2001 (Rel. 40, Last
16-OCT-2001 (Rel. 40, Last
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Pterygota; Neoptera; Endopterygota; Diptera; Brachyce
Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                                                                                                                                                                                    SEQUENCE
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ACT_SITE 217 217 BY SIMILARITY
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Pfam; PF01678; DAP_epimerase; 1.
PROSITE: PS01326; DAP_EPIMERASE; 1.
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                                        Drosophila melanogaster
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SIMILARITY: BELONGS TO THE DIAMINOPIMELATE EPIMERASE
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pathway: SIXTH STEP 1
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8; Conserv
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profit institutions as long as its content
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                                        (Fruit fly)
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t annotation update)
(EC 5.1.1.7) (DAP epimerase).
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RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Berson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Daves P.,
RA Ge Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Ge Pablos B., Delcher A., Deng Z., Mays A.D., Dew II., Dietz S.M.,
RA Clodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Kinmel B.E., Kodira C.C., Ferraz C., Ferritera S., Fleischman M.,
RA Kinmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lei Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Kinmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lei Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Werkilov G., Mijshina N.V., Mobarry C., Morris J., Moshreil A.,
RA Werkilov G., Mijshina N., Nixon K., Nussern D.R., Pacleb J.M.,
RA Nalson D.R., Nelson K.A., Nixon K., Nussern D.R., Pacleb J.M.,
RA Nalson D.R., Nelson K.A., Nixon K., Nussern D.R., Pacleb J.M.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
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RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Shue B.C., Sunders R., Weitst G.M., Weissenbach J.,
RA Weisson D.R., Nelson K.A., Nixon K., Weitst G.M., Weissenbach J.,
RA Weisson J.R., Nelson K.A., Din S., Zhan M., Zhang A.,
RA Nang Z.-Y. Wassarman D.A., Weinstock G.M., Weissenbach J.,
RA Nang Z.-Y. Wassarman D.A., Weinstock G.M., Weissenbach J.,
RA Nang Z.-Y. Wassarman D.A., Weinstock G.M., Weissenbach J.,
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Baldwin D.,
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use by non-profit institute. There are no rest use by non-profit institutions as long as its content modified and this statement is not removed. Usage by an entities requires a license agreement (See http://www.isb-or send an email to license@isb-sib.ch). This SWISS-PROT entry is copyright. It is produced between the Swiss Institute of Bioinformatics and the European Bioinformatics Institute. There are and through the by and for commercial
www.isb-sib.ch/announce/ restrictions EMBL collaboration outstation o o 9

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RESULT 14
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SEQUENCE
                                                                                                                                                                                 "Genome sequence of the endocellular bacterial symbiont of aphids Buchnera sp. APS.";

Nature 407:81-86(2000).

NATURE OF THIS PROTEIN SPECIFICALLY CATALYZES THE REMOVAL OF SIGNAL PEPTIDES FROM PROLIPOPROTEINS (BY SIMILARITY).

-1- CATALYTIC ACTIVITY: Cleavage of Natural Leader sequences from the control of the control 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Lipoprotein signal peptidase (EC 3.4.23.36) (Prolipoprotein peptidase) (Signal peptidase II) (SPase II).
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SIGNAL
                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
STRAIN-TOKYO 1998;
MEDLINE-20445173; PubMed-10993077;
Shigenobu S., Watanabe H., Hattori
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PROSITE; PS50240; TRYPSIN_DOM; 1.

PROSITE; PS00134; TRYPSIN_HIS; FALSE_NEG.

PROSITE; PS00135; TRYPSIN_SER; FALSE_NEG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF00089; trypsin; 1.
PRINTS; PR00722; CHYMOTRYPSIN.
SMART; SM00020; Tryp_SPc; 1.
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                     Bacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     symbiotic bacterium)
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InterPro; IPR001254; Trypsin.
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                                                                           membrane prolipoproteins. Hydrolyses xaa-xbb-xbb-1-Cys, xaa is hydrophobic (preferably Leu), xbb is often Ser o is often Gly or Ala, and the Cys is alkylated on sulfur diacylglyceryl group.

SUBCELLULAR LOCATION: Integral membrane protein (Probab SIMILARITY: BELONGS TO PEPTIDASE FAMILY A8.
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STRAIN=K12 / MG1655;
STRAIN=92358234; PubMed=1379743;
MEDLINE=92358234; PubMed=1379743;
Daniels D.L., Plunkett G. III, Burland
"Analysis of the Escherichia coli genom
from 84.5 to 86.5 minutes.";
Science 257:771-778(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DAPF_ECOLI STANDARD;
PO8885; P78126;
01-NOV-1988 (Rel. 09, Creat
30-MAY-2000 (Rel. 39, Last
16-OCT-2001 (Rel. 40, Last
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STRAIN-K12 / MG1655;

MEDIAUR-97426617; PubMed-9278503;

Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burl Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burl Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew Riley M., Collado-Vides Riley M., C
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InterPro; IPR001872; Lipo_sig_PTase.
Pfam; PF01252; Peptidase_A8; 1.
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Mau B., Shao Y.;
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MEDLINE=91072248;
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                                                                                                                                  complete genome sequence of nce 277:1453-1474(1997).
S.D.,
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EMBL, AE000457; AAC76812.1; ALT_INIT.
EMBL, M38257; AAA24761.1; -.
EMBL, X66782; CAA47882.1; -.
EMBL, X66782; CA447882.1; -.
PIR; S01913; S01913.
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HSSP, P44859; IBWZ.
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PROSITE: PS01326; DAP_EPIMERASE; 1.

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BY SIMILARITY.

CONFLICT 217 217

CONFLICT 98 98 T -> S (IN REF. 3).

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J. Bacteriol. 172:6973-6980(1990).
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Biochimie 78:277-287(1996).
-!- CATALYTIC ACTIVITY: LL-2,6-diaminoheptanedioate = meso-
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-!- PATHWAY: SIXTH STEP IN THE BIOSYNTHESIS OF LYSINE FROM ASPARTATE
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InterPro; IPR001653; DAP_epimerase.
Pfam; PF01678; DAP_epimerase; 1.
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    -i- SUBCELLULAR LOCATION: Cytoplasmic.
    -i- SIMILARITY: BELONGS TO THE DIAMINOPIMELATE EPIMERASE FAMILY.

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"Antigenic and genetic diversity among the attachment proteins of
group A respiratory Syncytial viruses that have caused repeat
infections in children.";
J. Infect. Dis. 178.925-932(1998).
EMBL; AF065408; AAD02944.1:
InterPro; IPR000925; Glycoprot_G.
InterPro; IPR003880; Phosphopant_attach.
InterPro; IPR003880; Phosphopant_attach.
Pfam; PF00802; Glycoprotein_G;
PRINTS; PR01217; PRICHEXTENSN.
PROSITE; PS00012; PHOSPHOPANTETHEINE; UNKNOWN_1.
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MEDLINE-99022964; PubMed=9806017;
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Viruses; ssRNA negative-strand viruses; Mononegavirales;
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NCBI_TaxID=11250;
144 KORONKPPSKPNNDFHFEVFNFVPCSIC 171
                                           | KQRQNKPPSKPNNDFHFEVFNFVPCSIC 28
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01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
ATTACHMENT GLYCOPROTEIN G (FRAGMENT).
Human respiratory syncytial virus.
Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Pneumovirinae; Pneumovirus.
NCBI_TaxID-11250;
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J. Infect. Dis. 178:925-932(1998).
EMBL, AF065407; AA002943:1;
InterPro: IPR003880; Phosphopant_attach.
InterPro: IPR003880; Phosphopant_attach.
InterPro: IPR00395; P_rich_extensn.
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SETRAIN=RSB89-1734;
STRAINE-91374005; PubMed-1895054;
MEDLINE-91374005; PubMed-1895054;
Cane P.A., Matthews D.A., Pringle C.R.;
"Identification of variable domains of the subgroup A respiatory syncytial vuruses.";
J. Gen. Virol. 72:2091-2096(1991).
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G PROTEIN (FRAGMENT).

respiratory syncytial virus.

viruses; ssRNA negative-strand viruses; Mononegavirales;

Paramyxoviridae; Pneumovirinae; Pneumovirus.
                                                Cane P.A.;
Submitted (APR-1993) to the
EMBL; x73350; CAA51761.1; -.
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MEDLINE=99022964; PubMed=9806017;
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InterPro; IPR000925; Glycoprot_G.
InterPro; IPR003880; Phosphopant_attach.
Pfam; PF00802; Glycoprotein_G; 1.
PROSITE; PS00012; PHOSPHOPANTETHEINE; UNKNOWN_1.
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NCBI_TaxID=12814;
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PRINTS: PR01217: PRICHEXTENSN.
PROSITE: PS00012: PHOSPHOPANTETHEINE: UNKNOWN_1.
                                                                                          SEQUENCE FROM N.A.
STRAIN-RSB89-1734;
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01-NOV-1996 (TrEMBLrel.
01-NOV-1996 (TrEMBLrel.
01-DEC-2001 (TrEMBLrel.
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EMBL; X73354; CAA51765.1; -
InterPro; IPR000925; Glycoprot_G.
InterPro; IPR003880; Phosphopant_attach.
Pfam; PF00802; Glycoprotein_G; 1.
PROSITE; PS00012; PHOSPHOPANTETHEINE; UNKNOWN_1.
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MEDLINE=91374005; PubMed=1895054;
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SEQUENCE FROM N.A. STRAIN=SUBGROUP A; MEDLINE=94335057;
                                     Paramyxoviridae;
NCBI_TaxID=11250;
                                              Human respiratory syncytial virus.
Viruses: ssRNA negative-strand viruses:
Paramyxoviridae: Pneumovirinae: Pneumovi
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NCBI_TaxID=12814;
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STRAIN-SUBGROUP A;
MEDLINE-94335057; PubMed-8057427;
MEDLINE-94335057; PubMed-8057427;
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----1a O., Martin M., Dopazo J., Arbiza
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01-DEC-2001 ('
GLYCOPROTEIN.
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J. Virol. 68:5448-5459(1994).
EMBL; 233428; CAAB39711;
InterPro; IPR000925; Glycoprot_G.
InterPro; IPR003880; Phosphopant_attach.
Pfam; PF00802; Glycoprotein_G; J.
PROSITE: PS00012; PHOSPHOPANTETHEINE; UNKNOWN_1.
SEQUENCE 297 AA; 32555 MW; 9D0A69BECAE8B6C8 CRC64;
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InterPro; IPR003880; Phossphopant_attach.
Pfam; PF00802; Glycoprotein_G; 1.
PROSITE; PS00012; PHOSPHOPANTETHEINE; UNKNOWN_1.
SEQUENCE 297 AA; 32589 MW; F210F8C68193F5DD CRC64;
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J. Virol. 68:5448-5459(1994).
EMBL; Z33427; CAA83870.1; -.
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Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Pneumovirinae; Pneumovirus.
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RESULT
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                                                                                                                                Query Match
Best Local S
Matches 28
                                                                                                                                                                                                                                                                                              "Antigenic and genetic diversity among the attachment pro group A respiratory syncytial viruses that have caused re infections in children.";

J. Infect Dis. 178:925-932(1998).

EMBL; AF065405, AAD02941.1; -

R InterPro; IPR000925; Glycoprot_G.

R InterPro; IPR0003880; Phosphopant_attach.

R InterPro; IPR002965; P_rich_extensn.

Pfam; PF00802; Glycoprotein_G; 1.

R PRINTS; PR01217; PRICHEXTENSN.

R PROSITE; PS00011; PHOSPHOPANTETHEINE; UNKNOWN_1.

SEQUENCE 297 AA; 32572 MW; 5C10E719A05EF5C1 CRC64;
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Best Local
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01-MAY-1999
01-MAY-1999
01-JUN-2001
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STRAIN-WY2780;
MEDLINE-99022964; PubMed-9806017;
Mufson M.A., Prince G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=94335057; PubMed=8057427;
Garcia O., Martin M., Dopazo J., Art
Hortal M., Perez-Brena P., Martinez
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human respiratory syncytial virus.
Viruses; SSRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Pneumovirinae; Pneumovirus.
NCBI_TaxID-11250;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro; IPR000925; Glycoprot_G.
InterPro; IPR003880; Phosphopant_attach.
Pfam; PF00802; Glycoprotein_G; IPR003802; PHOSPHOPANTETHEINE; UNKNOWN_1.
SEQUENCE 297 AA; 32581 MW; AD947B2318193306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A): cocirculating lineages and cochanges in the G glycoprotein.", J. Virol. 68.5448-5459(1994).
EMBL: 233432: CAA83875.1;
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NCBI_TaxID=11250;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human respiratory syncytial virus.
Viruses; ssRNA negative-strand viruses; Mononegavirales;
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149
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28; Conser
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Pred. No.
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Pred. No.
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Garcia-Barreno B.,
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antigenic
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Best Local S
Matches 27
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J. Infect. Dis. 181:1547-1556(2000).
EMBL; AF193305; AAF23728.1;
InterPro; IPR009925; Glycoprot_G.
InterPro; IPR003880; Phosphopant_attach.
InterPro; IPR003880; Phosphopant_attach.
InterPro; IPR002965; P_rich_extensn.
Pfam; PF00802; Glycoprotein_G: 1.
PRINTS; PR01217; PR1CHEXTENSN.
PROSITE; PS00012; PHOSPHOPANTETHEINE; UNKN NON_TER
SEQUENCE 278 AA; 30461 MW; AC113DCCDCF
                                                               "Genetic diversity and molecular epidemiology of the subgroups A and B of respiratory syncytial virus is consecutive epidemics in Korea.";

J. Infect. Dis. 181:1547-1556(2000).

EMBL; AF193309; AAF23732.1;

InterPro: IPR000925; Glycoprot_G.

InterPro: IPR003980; Phosphopant_attach.
InterPro: IPR003965; Prich_extensn.
pfom; pF00802; Glycoprotein_G; 1.

PRINTS; PR01217; PRICHEXTENSN.

PROSITE: PS00012; PHOSPHOPANTETHEINE; UNKNOWN_1.
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Q906U1;
Q1-MAY-2000 (TrEMBLrel. 13,
Q1-MAY-2000 (TrEMBLrel. 13,
Q1-DEC-2001 (TrEMBLrel. 19,
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Q9Q6T7;
Q1-MAY-2000 (TrEMBLrel.
PRINTS; P
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Choi E.H., Lee H.J.;
"Genetic diversity and molecular epidemiology of
subgroups A and B of respiratory syncytial virus
consecutive epidemics in Korea.";
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Viruses; ssRNA negative-strand viruses; Mon
Paramyxoviridae; Pneumovirinae; Pneumovirus
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Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Pneumovirinae; Pneumovirus.
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L (TrEMBLrel.
EN (FRAGMENT).
       278
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   AA;
       30547 MW;
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19,
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1; Mismatches
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Best Local S
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Q9Q6T3;
Q1-MAY-2000 (TIEMBLIEL 13, C
Q1-MAY-2000 (TIEMBLIEL 13, L
Q1-DEC-2001 (TIEMBLIEL 19, L
GLYCOPROTEIN (FRAGMENT).
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"Genetic diversity and molecular epidemiology of subgroups A and B of respiratory syncytial virus consecutive epidemics in Korea.";
J. Infect. Dis. 181:1547-1556(2000).
EMBL; AF193312; AAF23735.1;
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NCBI_TaxID=11250;
MEDLINE=20283719; pubMed=10823752;
Choi E.H., Lee H.J.;
"Genetic diversity and molecular epidemiology of
subgroups A and B of respiratory syncytial virus
                                                                                                                                                                                         Human respiratory syncytial virus.
Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Pneumovirinae; Pneumovirus.
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InterPro: IPR003880; Phosphopant_attach
InterPro: IPR002965; P_rich_extensn.
Pfam; PF00802; Glycoprotein_G; 1.
PRINTS: PR01217; PRICHEXTENSN.
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Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Pneumovirinae; Pneumovirus.
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STRAIN-93006;
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| Similarity 96.4%;
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RESULT 14
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Matches 27; Conserv
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Best Local 9
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01-MAY-2000
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J. Infect. Dis. 181:1547-1556(2000).

EMBL: AF19313: AAF23736.1;
InterPro: IPR000925: Glycoprot_G.
InterPro: IPR003880; Phosphopant_attach.
InterPro: IPR002965; P_rich_extensn.
Pfam; PF00802; Glycoprotein_G.1
Pfam; PF00802; Glycoprotein_G.1
PRINTS: PR01217; PRICHEXTENSN.
PROSITE; PS00012; PHOSPHOPANTETHEINE; UNKNOWN_1.
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"Genetic diversity and molecular epidemiology of the G protein (
subgroups A and B of respiratory syncytial virus isolated over onsecutive epidemics in Korea.";

J. Infect. Dis. 181:1547-1556(2000).

EMBL; AF193316; AAF23739.1; -

InterPro; IPR000995; Glycoprot_G.

InterPro; IPR003880; Phosphopant_attach.

InterPro; IPR003880; Phosphopant_attach.

Pfam; PF00802; Glycoprotein_G; I

PRINTS; PR01217; PRICHEXTENSN.

PROSITE; PS00012; PHOSPHOPANTETHEINE; UNKNOWN_1.
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Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Pneumovirinae; Pneumovirus.
NCBI_TaxID-11250;
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nilarity 96.4%;
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Q9Q6T9;
01-MAY-2000
01-MAY-2000
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"Genetic diversity and molecular epidemiology of the G protein subgroups A and B of respiratory syncytial virus isolated over consecutive epidemics in Korea.";

J. Infect. Dis. 181:1547-1556(2000).

EMBL; AF193306; AAF23729.1;
InterPro; IPR000925; Glycoprot_G.

InterPro; IPR003880; Phosphopant_attach.
                                                                                                                                                                                                                                                                                                                              "Genetic diversity and molecular epidemiology of the G protein of subgroups A and B of respiratory syncytial virus isolated over 9 consecutive epidemics in Korea.";
J. Infect. Dis. 181:1547-1556(2000).
EMBL; AR193307; AAR23730.1;
InterPro; IPR003880; Phosphopant_attach.
InterPro; IPR003880; Phosphopant_attach.
InterPro; IPR00385; P_rich_extensn.
                                                                                                                                                                                                             Pfam; PF00802; Glycoprotein_G; T. PRINTS; PR01217; PRICHEXTENSN.
PROSITE; PS00012; PHOSPHOPANTETHEINE; UNKNOWN_1.
NON_TER 1 1
SEQUENCE 279 AA; 30570 MW; AE6CF9C1D8F8A97C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human respiratory syncytial virus.
Viruses; ssRNA negative-strand viruses; Mononegavirales; Paramyxoviridae; Pneumovirinae; Pneumovirus.
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PROSITE: PS00012; PHOSPHOPANTETHEINE: UNKNOWN_1
NON_TER 1
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Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Pneumovirinae; Pneumovirus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=11250;
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130 KQRQNKPPNKPNNDFHFEVFNFVPCSIC
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                                             1 KQRQNKPPSKPNNDFHFEVFNFVPCSIC
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27; Conservative
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                                                                                             Conservative
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Last annotation updat
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Pred.
                                                                                                                 Score 160;
Pred. No. 2
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157
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Search completed: September 4, 2002, 17:37:34 Job time: 123 sec

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Title:
Perfect score:
Sequence:
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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                                                                           44440
                                                                            protein search, using sw model
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Issued_Patents_AA:*

// cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
// cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
// cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
// cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
// cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
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Gapop 10.0 , Gapext 0.5
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169
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DВ
         US-08-467-963C-8
US-08-838-1190D-8
US-08-852-3440-639E-8
US-08-467-963A-8
US-08-467-963A-8
US-08-793-792-19
US-08-793-792-11
US-08-793-792-11
US-08-793-792-11
US-08-793-792-11
US-08-793-792-11
US-08-793-792-11
US-08-793-792-13
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(without alignments)
54.446 Million cell updates/sec
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         Sequence 8, Appli
Sequence 9, Appli
Sequence 12, Appli
Sequence 14, Appli
Sequence 7, Appli
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Sequence
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RESULT 2 US-08-467-563C-8 US-08-467-563C-8 Sequence 8, Application US/08467963C Patent No. 5968776 GEMERAL INFORMATION: APPLICANT: KLEIN, Michel H APPLICANT: DU, RUN-PAN APPLICANT: EWASYSHYN, MARY E TITLE OF INVENTION: MULTIMERIC HYBRID GENE ENCODING A TITLE OF INVENTION: PARAINFLUENZA VIRUS AND RESPIRATORY SYNCYTIAL VIRUS NUMBER OF SEQUENCES: 38 CORRESPONDENCE ADDRESS: ADDRESSE: Sim & MCBurney STREET: 6th Floor, 330 University Avenue CITY: TOronto STATE: Ontario COUNTRY: Canada ZIP: MSG 1R7 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible	Query Match 96.4%; Score 163; DB 6; Length 681; Best Local Similarity 100.0%; Pred. No. 2.3e-15; Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0 1 KORQNKPPSKPNNDFHFEVFNFVPCSIC 28 1	RESULT 1 5194595-19 5194595-19 ; PATHEN NO. 5194595 ; APPLICANT: WATHEN, MICHAEL W. APPLICANT: WATHEN, MICHAEL W. ITLE OF INVENTION: CHIMERIC GLYCOPROTEINS CONTAINING ; TMUNOGENIC SEGMENT OF THE GLYCOPROTEINS OF HUMAN RESPIRATORY ; SYNCYTIAL VIRUS ; UNUMBER OF SEQUENCES: 19 ; CURRENT APPLICATION DATA: ; APPLICATION NUMBER: US/07/543,780 ; FILLING DATE: 31-OCT-1988 ; PRIOR APPLICATION DATA: ; APPLICATION NUMBER: 137,387 ; FILLING DATE: 23-DEC-1987 ; SEQ ID NO:19: LENGTH: 681	28 45.5 26.9 52 4 US-09-346-510B-22 Sequence 22, Appl 45.5 26.9 154 4 US-09-346-510B-1 Sequence 1, Appli 30 45.5 26.9 154 4 US-09-346-510B-1 Sequence 1, Appli 31 45.5 26.9 727 2 US-08-475-844-9 Sequence 9, Appli 32 45.5 26.9 728 2 US-08-475-844-5 Sequence 9, Appli 34 45.5 26.9 728 5 PCT-US95-08429-9 Sequence 5, Appli 35 45.5 26.9 728 5 PCT-US95-08429-9 Sequence 5, Appli 36 45.5 26.6 30.9 3 US-08-605-284B-4 Sequence 4, Appli 37 44.5 26.3 14.9 3 US-08-88-207-3.36 Sequence 4, Appli 38 44.5 26.3 14.9 3 US-08-8134-557D-2 Sequence 2, Appli 44.5 26.3 47.6 4 US-08-314-557D-2 Sequence 2, Appli 44.5 26.3 30.9 3 US-08-605-284B-6 Sequence 4, Appli 44.5 26.3 30.9 3 US-08-605-284B-6 Sequence 5, Appli 38 44.5 26.3 30.9 3 US-08-605-284B-6 Sequence 4, Appli 44.2 26.0 30.9 3 US-08-605-284B-6 Sequence 5, Appli 44.2 26.0 31.0 3 US-08-605-284B-14 Sequence 10, Appli 44.4 26.0 31.0 3 US-08-605-284B-14 Sequence 11, Appli 44.2 26.0 31.0 3 US-08-605-284B-14 Sequence 11, Appli 54.4 26.0 31.0 3 US-08-605-284B-14 Sequence 11, Appli 54.4 26.0 31.0 3 US-08-605-284B-15 Sequence 15, Appli 54.4 26.0 31.0 3 US-08-605-284B-15 Sequence 11, Appli 54.4 26.0 31.0 3 US-08-605-284B-15 Sequence 15, Appli 54.4 26.0 31.0 3 US-08-605-284B-15 Sequence 15, Appli 54.4 26.0 31.0 3 US-08-605-284B-15 Sequence 15, Appli 54.4 26.0 31.0 31.0 3 US-08-605-284B-15 Sequence 15, Appli 54.4 26.0 31.0 31.0 3 US-08-605-284B-15 Sequence 15, Appli 54.4 26.0 31.0 31.0 3 US-08-605-284B-15 Sequence 15, Appli 54.4 26.0 31.0 31.0 3 US-08-605-284B-15
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COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/08/838,189D
FILING DATE: 16-APR-1997
CLASSIFICATION: 435
PRIOR APPLICATION: 435
PRIOR APPLICATION NUMBER: US 08/001,554
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TELEFAX: (416) 595-1163
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
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APPLICANT: EWASYSHYN,
TITLE OF INVENTION: M
TITLE OF INVENTION: C
TITLE OF INVENTION: P
NUMBER OF SEQUENCES:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9200117.1
FILING DATE: 06-JAN-1992
ATTORNEY/AGENT INFORMATION:
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REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 10
TELECOMMUNICATION INFORMATION:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9200117.1
FILING DATE: 06-JAN-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US CAMPPLICATION NUMBER: U
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CLASSIFICATION:
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TYPE: amino acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: Ontario
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27; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MULTIMERIC HYBRID GENE ENCODING A CHIMERIC PROTEIN WHICH CONFERS PROTECTION AGAINST PARAINFLUENZA VIRUS AND RESPIRATORY SYNCYTIAL VIRUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PC-DOS/MS-DOS
In Release #1.0, Version #1.30
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Pred. No. 2.
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Query Match
Best Local Similarity
Thes 27; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/344,639
FILING DATE: 14-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9200117.1
FILING DATE: 06-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: STEWART, Michael I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (416) 595-111
INFORMATION FOR SEQ ID NO:
TELEFAX: (416) 595-1163 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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APPLICANT:
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LENGTH: 298 amino acid
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                                                                                                                                                                                                                                                                                              SOFTWARE: Patentin Rel CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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                                                              REFERENCE/DOCKET NUMBER: 10 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 3
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TITLE OF INVENTION:
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                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/O FILING DATE: 07-MAY-1997
                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                REGISTRATION NUMBER:
                                                                                                                                                                                                                                                CLASSIFICATION:
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5, 6017539
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EWASYSHYN, MAIY E
EWASYSHYN, MAIY E
VENTION: CHIMERIC PROTEIN WHICH CONFERS PROTECTION
VENTION: AGAINST PARAINFLUENZA VIRUS AND RESPIRATORY
VENTION: SYNCYTIAL VIRUS
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                                                 595-1155
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Pred. No. 2.
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STRANDEDNESS:

single

linear

amino acid

LENGTH:

298 amino acids

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Best Local Similarity
Matches 27; Conser
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SEQUENCE CHARACTERISTICS:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9200117.1
FILING DATE: 06-JAN-1992
                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER: 10
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Patentin Rei
CURRENT APPLICATION DATA
                                                                                                                                                 TOPOLOGY: linear MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
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149 KORONKPPNKPNNDFHFEVFNFVPCSIC 176
                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US 0 FILING DATE: 06-JAN-1993 CLASSIFICATION: 424
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                                                                                                                                                                               STRANDEDNESS:
                                                                                                                                                                                             TYPE: amino acids
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TELEX: 065-24567 SIMBAS
                                                                                                                                                                                                                                                                                        TELEPHONE:
                                                                                                                                                                                                                                                                                                                                     NAME: Stewart, Michael REGISTRATION NUMBER: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/0 FILING DATE: 14-NOV-1994
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ZIP: M5G 1R7
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                 1 KQRQNKPPSKPNNDFHFEVFNFVPCSIC 28
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                                                          Conservative
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PROTECTION AGAINST PARAINFLUENZA VIRUS
AND RESPIRATORY SYNCYTIAL VIRUS
38
                                                                         94.7%;
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                                                    Pred. No. 2.5e
1; Mismatches
                                                                         Score 160; DB 3; Pred. No. 2.5e-15;
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2.5e-15;
                                                                                      Length 298;
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US-08-467-961A-8
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                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 27; Conserv
                                                                                                        Sequence 8, Application US/08467961A Patent No. 6171783
                                                                          GENERAL INFORMATION: APPLICANT: Klein,
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SEQUENCE CHARACTERISTICS:
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             APPLICANT: Du, Run-Pan
APPLICANT: Ewasyshyn, Mary E
TITLE OF INVENTION: Chimeric
NUMBER OF SEQUENCES: 21
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REFERENCE/DOCKET NUMBER: 10
TELECOMMUNICATION INFORMATION:
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ZIP: M5G 1R7
COMPUTER READABLE FORM:
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APPLICATION NUMBER:
FILING DATE: 06-JAN-
CLASSIFICATION: 435
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NAME: Stewart, Michael I
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CORRESPONDENCE ADDRESS:
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OPERATING SYSTEM:
SOFTWARE: Patenti
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065-24567 SIMBAS
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                                                                            Klein, Michel H
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SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                              single.
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                                                                                                                                                                                                                                                                                 94.78;
96.48;
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Pred. No. 2.5e-15
                             Immunogens
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Best Local Similarity
Matches 27; Conserv
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TELEX: 065-24567 SIMBAS INFORMATION FOR SEQ ID NO: 8
SEQUENCE CHARACTERISTICS:
LENGTH: 298 amino acids
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                                                                                                                                                                                                                                                                                                      tent No.
      APPLICANT: Klein, Michel H
APPLICANT: Du, Run-Pan
APPLICANT: Ewasyshyn, Mary E
TITLE OF INVENTION: Chimeric Immunogens
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sim & McBurney
STREET: 330 University Avenue, 6th Floor
                                                                                                                                                                                                                                                                                     ENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Stewart, Michael I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 10:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/001,554
FILING DATE: 06-JAN-1993
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/
FILING DATE: 06-JUN-199
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: GB 9: FILING DATE: 06-JAN-1992 CLASSIFICATION: 435 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE:
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PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                    149 KQRQNKPPNKPNNDFHFEVFNFVPCSIC 176
                                                                                                                       STREET: 330 Uni
CITY: Toronto
STATE: Ontario
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TOPOLOGY: lir
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                                                                                              COUNTRY: Canada
ZIP: M5G 1R7
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м5G 1R7
                                                                                                                                                                                                                                                                                                      , Application US/08001554A 6225091
ARE: Patentin Release #1.0, Version #1.25 APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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Pred. No. 2.
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2.5e-15;
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COUNTRY: Canada
ZIP: M5G 1R7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/750.624
FILING DATE: 26-FEB-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Stewart, Michael
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Best Local Similarity
Matches 27; Conserv
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TELEX: 065-24567 SIMBAS
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                TELEFAX: (416) 595-1163 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Kandil, Ali
APPLICANT: James, Olive A
APPLICANT: Chong, Pele
APPLICANT: Klein, Michel H
TITLE OF INVENTION: ADJUVANT
TITLE OF INVENTION: MINERAL S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION: TELEPHONE: (416) 595-1155
                                                                                                                 REFERENCE/DOCKET NUMBER: 10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
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ATTORNEY/AGENT INFORMATION:
                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: FILING DATE: 06-JA
            TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                   NAME: Stewart, Michael REGISTRATION NUMBER: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
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ropology:
                                                ENGTH:
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6th Floor, 330 University Avenue
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                                              26 amino acids
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linear
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Pred. No. 2
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INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 12, Patent No. 6
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Best Local :
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Best Local Similarity
Matches 19; Conserv
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                         CLASSIFICATION: 514
CITASSIFICATION: 514
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
                                                                                                                                                                                                                               APPLICANT:
TITLE OF INVENTION: A
TITLE OF INVENTION: G
TITLE OF INVENTION: O
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: 11
MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO) CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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 STRANDEDNESS:
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               amino acid
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single
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95.0%;
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Pred. No. 6.6e-10;
Pred. No. 6.6e-10;
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HYPOTHETICAL: NO US-08-793-792-4
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US-08-793-792-7
; Sequence 7, Application US/08793792
; Patent No. 6077511
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Matches
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Best Local Similarity
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                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO:
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MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                   TITLE OF INVENTION: A
TITLE OF INVENTION: C
TITLE OF INVENTION: C
NUMBER OF SEQUENCES:
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TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
                            COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOTTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/793,792
                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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les 19; Conserv
CLASSIFICATION: 514
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                                                                                                                                                                  Antigenic peptides derived from the G-protein of RSV for type- and subtype-specific diagnosis of respiratory syncytial virus (RSV) infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  64.5%;
100.0%;
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; Pred. No. 3.
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3.5e-09;
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CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TYPEOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
US-08-793-792-11
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US-08-793-792-3
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                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 85.0
Matches 17; Conservative
                                                                                                                                                                                         Sequence 3, Application US/08793792 Patent No. 6077511
                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
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SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
TITLE OF INVENTION: Antigenic pepti
TITLE OF INVENTION: G-protein of RS
TITLE OF INVENTION: of respiratory
NUMBER OF SEQUENCES: 13
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                    GENERAL INFORMATION: APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/793,792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Antigenic peptides derived from the TITLE OF INVENTION: G-protein of RSV for type- and subtype-specific diagnosis TITLE OF INVENTION: of respiratory syncytial virus (RSV) infection. NUMBER OF SEQUENCES: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10 KPNNDFHFEVFNFVPCSICG 29
                                                                                                                                                                                                                                                                                                      FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                              Conservative
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85.0%;
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85.0%;
                                                                                           Antigenic peptides derived from the G-protein of RSV for type- and subtype-specific diagnosis of respiratory syncytial virus (RSV) infection.
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                                                                                                                                                                                                                                                                                                                                                                                                 Score 106; DB 3; Pred. No. 1.2e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 106; DB 3; Pred. No. 1.1e-08;
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TOPOLOGY: linear

MOLECULE TYPE: peptide
HYPOTHETICAL: NO
US-08-793-792-3
 В
                     2
                                                          Query Match 59.8%;
Best Local Similarity 84.2%;
                                               Matches
                                                                                                                                                                                            CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/793,797
FILING DATE:
CLASSITET
                                                                                                                                                         LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS: single
                       11 PNNDFHFEVFNFVPCSICG 29
16;
                                                                                                                                           Los: single
linear
                                                 Conservative
                                                 ۲,
                                                           Score 101; DB 3;
Pred. No. 4.7e-08;
                                                 Mismatches
                                                                       Length 28;
                                                 Indels
                                                 0;
                                               Gaps
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Search completed: September 4, 2002, 17:36:41 Job time: 155 sec

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